GSTIN: 29AYHPN8663P1ZA
QUALIEX CIVIL DESIGN & CONSULTANCY
Project Management Services

Job No: QECD/BBMP/YNK/QC-03/W-1/2020-21

Test Report

Project Name	Improvements and Development of Park at Vinivink Shastry Layout in Ward No-01 of Yelahanka Sub Division
Client	The Executive Engineer, Yelahanka Division, BBMP
Mix Type	PCC(1:3:6)
Contractor	Sri. N. Thirunagendra
Test Method	IS : 4031 (Part 5) -1988 & Specification for Road & Bridge Works, MORT&H, Rev-V.
Material	Cement
Sample No	1
Sample Collected Date	29-May-2020
Test Date	31-May-2020

Consistency test

AE-I

	Trail No	Weight of Cement	Percentage of water added (%)	Weight of Water (gm)	Initial Reading of Plunger (mm)	Difference (mm)
Consistency test of Cement	1	400	28.5	114	40	19
	2	400	27.0	108	40	17
	3	400	29.0	116	40	12
	4	400	20.0	80	40	8
	5	400	29.5	118	40	6.5

Results: Standard Consistency of Cement: 30.50%

Note:

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For Qualiex Civil Design & Consultancy

Authorised Signatory

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Ph No:- +91 9482685185, +91 9035830663
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Job No: QECD/BBMP/YNK/QC-03/W-1/2020-21

Test Report

Project Name	Improvements and Development of Park at Vinivink Shastry Layout in Ward No-01 of Yelahanka Sub Division
Client	The Executive Engineer, Yelahanka Division, BBMP
Mix Type	PCC(1:3:6)
Contractor	Sri. N. Thirunagendra
Test Method	IS : 4031 (Part 5) -1988 & Specification for Road & Bridge Works, MORT&H, Rev-V.
Material	Cement
Sample No	2
Sample Collected Date	30-May-2020
Test Date	1-Jun-2020

AB-1

Consistency test

	Trail No	Weight of Cement	Percentage of water added (%)	Weight of Water (gm)	Initial Reading of Plunger (mm)	Difference (mm)
Consistency test of Cement	1	400	28.0	112	40	19.50
	2	400	27.5	110	40	18.00
	3	400	30.0	120	40	9.00
	4	400	30.5	122	40	8.00
	5	400	28.5	114	40	6.50

Results: Standard Consistency of Cement: 30.50%

Note:

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Test Report

Project Name	Improvements and Development of Park at Vinivink Shastry Layout in Ward No-01 of Yelahanka Sub Division
Client	The Executive Engineer, Yelahanka Division, BBMP
Mix Type	PCC(1:3:6)
Contractor	Sri. N. Thirunagendra
Test Method	IS : 4031 (Part 3) -1988 & Specification for Road & Bridge Works, MORT&H, Rev-V.
Material	Cement
Sample No	1
Sample Collected Date	29-May-2020
Date	31-May-2020

AE-1

Soundness Test of Cement

Sl. No.	Description	Trial 1	Trial 2	Trial 3
1	Initial Distance between the indicator points of Lechatelier mould	11	10	11
2	Final Distance between the indicator points of Lechatelier mould	13.5	12.5	18
3	Difference or expansion	2.5	2.5	7
4	Average Differences or Expansion in mm	4.00		

Results: Difference in Expansion of Cement: 4.0mm
Comments: Maximum allowable Expansion of cement is 10mm.

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Test Report

Project Name	Improvements and Development of Park at Vinivink Shastry Layout in Ward No-01 of Yelahanka Sub Division
Client	The Executive Engineer, Yelahanka Division, BBMP
Mix Type	PCC(1:3:6)
Contractor	Sri. N. Thirunagendra
Test Method	IS : 4031 (Part 3) -1988 & Specification for Road & Bridge Works, MORT&H, Rev-V.
Location	At Site
Material	Cement
Sample No	2
Sample Collected Date	30-May-2020
Date	1-Jun-2020

AE-1

Soundness Test of Cement

Sl. No.	Description	Trial 1	Trial 2	Trial 3
1	Initial Distance between the indicator points of Lechatelier mould	10	11	10
2	Final Distance between the indicator points of Lechatelier mould	18	14.5	15
3	Difference or expansion	8	3.5	5
4	Average Differences or Expansion in mm	5.50		

Results: Difference in Expansion of Cement: 5.50mm
Comments: Maximum allowable Expansion of cement is 10mm.

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Job No: QECD/BBMP/YNK/QC-03/W-1/2020-21

Test Report

Project Name	Improvements and Development of Park at Vinivink Shastry Layout in Ward No-01 of Yelahanka Sub Division
Client	The Executive Engineer, Yelahanka Division, BBMP
Mix Type	PCC(1:3:6)
Contractor	Sri. N. Thirunagendra
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Material	Cement
Size of cubes	70.60x70.60x70.60mm
Cross Sectional Area	4984.36 mm2
Sample No	1
Sample Collected Date	29-May-2020
Test Date	5-Jun-2020

AE-1

Compressive strength of Cement

Cube	Cement Grade	Age at Test (Days)	Weight (kg)	Density (kg/m3)	Max. Load (KN)	Area (mm2)	Compressive Strength (N/mm2)	Average Sample (n/mm2)
1	43	7	1.00	2278.03	182	4984.36	36.51	34.81
2	43	7	1.00	2278.03	165	4984.36	33.10	

Results: 7-days Compressive strength of cement is 34.81N/mm^2

Comments: 7-days Compressive strength of cement should not be less than 33 N/mm^2

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Test Report

Project Name	Improvements and Development of Park at Vinivink Shastry Layout in Ward No-01 of Yelahanka Sub Division
Client	The Executive Engineer, Yelahanka Division, BBMP
Mix Type	PCC(1:3:6)
Contractor	Sri. N. Thirunagendra
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Material	Cement
Size of cubes	70.60x70.60x70.60mm
Cross Sectional Area	4984.36 mm2
Sample No	1
Sample Collected Date	30-May-2020
Test Date	6-Jun-2020

AE-1

Compressive strength of Cement

Cube	Cement Grade	Age at Test (Days)	Weight (kg)	Density (kg/m3)	Max. Load (KN)	Area (mm2)	Compressive Strength (N/mm2)	Average Sample (n/mm2)
1	43	28	1.00	2278.03	218	4984.36	43.74	43.54
2	43	28	1.00	2278.03	216	4984.36	43.34	

Results: 7-days Compressive strength of cement is 43.54N/mm^2

Comments: 28-days Compressive strength of cement should not be less than 43 N/mm^2

Note:

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Test Report

Project Name	Improvements and Development of Park at Vinivink Shastry Layout in Ward No-01 of Yelahanka Sub Division
Client	The Executive Engineer, Yelahanka Division, BBMP
Mix Type	PCC(1:3:6)
Contractor	Sri. N. Thirunagendra
Test Method	IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	At site
Material	Fine Aggregates
Sample No	1
Sample Collected Date	29-May-2020
Test Date	31-May-2020

AE-1

Gradation of Fine Aggregate

Weight of Sample(gram): 200

Sl No.	IS Sieve Size	Weight retained	% retained	% Cumulative	Cumulative % of Passing		Remarks
					% Passing	Gradation limits	
1	10 mm	0	0.00	0.00	100.00	100	Gradation satisfies the MORT&H Zone II Specification for PQC
2	4.75 mm	13	6.50	6.50	93.50	90-100	
3	2.36 mm	18	9.00	15.50	84.50	75-100	
4	1.18 mm	16	8.00	23.50	76.50	55-90	
5	600 μ	58	29.00	52.50	47.50	35-59	
6	300 μ	65	32.50	85.00	15.00	8-30	
7	150 μ	15	7.50	92.50	7.50	0-10	

AE

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Client	The Executive Engineer, Yelahanka Division, BBMP
Mix Type	PCC(1:3:6)
Contractor	Sri. N. Thirunagendra
Test Method	IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	At site
Material	Fine Aggregates
Sample No	2
Sample Collected Date	30-May-2020
Test Date	1-Jun-2020

AE-1

Gradation of Fine Aggregate

Weight of Sample(gram): 200

Sl No.	IS Sieve Size	Weight retained	% retained	% Cumulative	Cumulative % of Passing		Remarks
					% Passing	Gradation limits	
1	10 mm	0	0.00	0.00	100.00	100.00	Gradation satisfies the MORT&H Zone II Specification for PQC
2	4.75 mm	19	9.50	9.50	90.50	90-100	
3	2.36 mm	25	12.50	22.00	78.00	75-100	
4	1.18 mm	20	10.00	32.00	68.00	55-90	
5	600 μ	48	24.00	56.00	44.00	35-59	
6	300 μ	50	25.00	81.00	19.00	8-30	
7	150 μ	26	13.00	94.00	6.00	0-10	

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Test Report

Project Name	Improvements and Development of Park at Vinivink Shastry Layout in Ward No-01 of Yelahanka Sub Division
Client	The Executive Engineer, Yelahanka Division, BBMP
Mix Type	PCC(1:3:6)
Contractor	Sri. N. Thirunagendra
Test Method	IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Material	Coarse aggregates
Sample No	1
Sample Collected Date	29-May-2020
Test Date	31-May-2020

AE-1

Gradation of Coarse Aggregate

Weight of Sample: 4000 gms

Sl. No	I.S. Sieve size	Weight Retained (gm)	of weight Retained (%)	Percentage of weight retained (%)	Cumulative % of Passing		Remarks
					Test Result	Limits as per MORT&H	
1	31.50	0	0.00	0.00	100.00	100	
2	26.50	490	12.25	12.25	87.75	85-95	
3	19.00	315	7.88	20.13	79.88	68-88	
4	9.50	650	16.25	36.38	63.63	45-65	
5	4.75	692	17.30	53.68	46.33	30-55	
6	0.60	953	23.83	77.50	22.50	8-30	
7	0.15	615	15.38	92.88	7.13	5-15	
8	0.08	260	6.50	99.38	0.63	0-5	

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Test Report

Project Name	Improvements and Development of Park at Vinivink Shastry Layout in Ward No-01 of Yelahanka Sub Division
Client	The Executive Engineer, Yelahanka Division, BBMP
Mix Type	PCC(1:3:6)
Contractor	Sri. N. Thirunagendra
Test Method	IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	At site
Material	Coarse aggregates
Sample No	2
Sample Collected Date	30-May-2020
Test Date	1-Jun-2020

Gradation of Coarse Aggregate

Weight of Sample: 4000 gms

Sl. No	I.S. Sieve size	Weight Retained (gm)	Percentage of weight Retained (%)	Cumulative Percentage of weight retained	Cumulative % of Passing		Remarks
					Test Result	Gradation Limits as per MORT&H	
1	31.50	0	0.00	0.00	100.00	100	
2	26.50	492	12.30	12.30	87.70	85-95	
3	19.00	352	8.80	21.10	78.90	68-88	
4	9.50	625	15.63	36.73	63.28	45-65	
5	4.75	382	9.55	46.28	53.73	30-55	
6	0.60	1051	26.28	72.55	27.45	8-30	
7	0.15	743	18.58	91.13	8.87	5-15	
8	0.08	102	2.55	93.68	6.32	0-5	

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Test Report

Project Name	Improvements and Development of Park at Vinivink Shastry Layout in Ward No-01 of Yelahanka Sub Division
Client	The Executive Engineer, Yelahanka Division, BBMP
Mix Type	PCC(1:3:6)
Contractor	Sri. N. Thirunagendra
Test Method	IS : 2386 (Part - 3) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Material	Coarse aggregates
Sample No	1
Sample Collected Date	29-May-2020
Test Date	31-May-2020

AE-1

Water Absorption of Coarse Aggregate

Sl. No.	Particulars	Computations	Test Numbers		Mean
			Test 1	Test 2	
1	Weight of SSD sample	W_1 g	800	800	
2	Wt of Basket Filled with Aggregates Immersed in water	W_2g	1962	1985	
3	Weight of Saturated Aggregate in water	W_3g = W_2- W_1	1162	1185	
4	Weight of saturated surface dry aggregate in Air	W_3 g	1997	2010	
5	Weight of water equal to the Volume of the Aggregate	W_3- W_s	835	825	
6	Weight of Oven dried Aggregate	W_4g	1958	1981	
7	Specific Gravity	W_4/(W_3- W_s)	2.34	2.40	2.37
8	Apparent Specific Gravity	W_4/(W_4- W_s)	2.46	2.49	2.47
9	Water Absorption	(W_4- W_3)*100/ W_4	1.99	1.46	1.73

Comments: Maximum allowable Aggregate Water Absorption value is 2.0%.

Note:

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Project Name	Improvements and Development of Park at Vinivink Shastry Layout in Ward No-01 of Yelahanka Sub Division
Client	The Executive Engineer, Yelahanka Division, BBMP
Mix Type	PCC(1:3:6)
Contractor	Sri. N. Thirunagendra
Test Method	IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	At site
Material	Coarse Aggregates
Sample No	2
Sample Collected Date	30-May-2020
Test Date	1-Jun-2020

AE-1

Water Absorption of Coarse Aggregate

Sl. No.	Particulars	Computations	Test Numbers		Mean
			Test 1	Test 2	
1	Immersed in Water	W_1 g	765	765	
2	Aggregates Immersed in water	W_2g	2142	1952	
3	Weight of Saturated Aggregate in water	W_sg = W_2- W_1	1377	1187	
4	Weight of saturated surface dry aggregate in Air	W_3 g	2177	1977	
5	Volume of the Aggregate	W_3- W_s	800	790	
6	Aggregate	W_4g	2138	1948	
7	Specific Gravity	W_4/(W_3- W_s)	2.67	2.47	2.57
8	Apparent Specific Gravity	W_4/(W_4- W_s)	2.81	2.56	2.68
9	Water Absorption	(W_4- W_3)*100/ W_4	1.82	1.49	1.66

AE

Comments: Maximum allowable Aggregate Water Absorption value is 2.0%.

Note:

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Test Report

Project Name	Improvements and Development of Park at Vinivink Shastry Layout in Ward No-01 of Yelahanka Sub Division
Client	The Executive Engineer, Yelahanka Division, BBMP
Mix Type	PCC(1:3:6)
Contractor	Sri. N. Thirunagendra
Test Method	IS : 2386 (Part - 4) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Material	Coarse aggregates
Sample No	1
Sample Collected Date	29-May-2020
Date	31-May-2020

AE-1

Impact Test of Coarse Aggregate

Sl. No.	Determination	Unit	Trails	
1	Weight of the Aggregate before compaction, W1	gm	500	500
2	Weight of the sample passing through 2.36 mm IS sieves after Impact, W2	gm	195	182
3	Weight of the sample retained on 2.36 mm IS sieve after Impact,W3	gm	305	318
4	Aggregate Impact Value (W2 / W1)x100	%	39.00	36.40
5	Specified Limit	%	45.00	

Results: Average Aggregate Impact Value: **37.70** %

Note:

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Test Report

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Client	The Executive Engineer, Yelahanka Division, BBMP
Job No	Job No: QECD/BBMP/YNK/QC-03/W-1/2020-21
Mix Type	PCC(1:3:6)
Contractor	Sri. N. Thirunagendra
Test Method	IS : 2386 (Part - 4) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	At Site
Material	Coarse aggregates
Sample No	2
Sample Collected Date	30-May-2020
Date	1-Jun-2020

AE-1

Impact Test of Coarse Aggregate

Sl. No.	Determination	Unit	Trails	
1	Weight of the Aggregate before compaction, W1	gm	500	500
2	Weight of the sample passing through 2.36 mm IS sieves after Impact, W2	gm	195	182
3	Weight of the sample retained on 2.36 mm IS sieve after Impact,W3	gm	305	318
4	Aggregate Impact Value (W2 / W1)x100	%	39.00	36.40
5	Specified Limit	%	45.00	

Results: Average Aggregate Impact Value: **37.70** %

Note:

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Job No: QECD/BBMP/YNK/QC-03/W-1/2020-21

Test Report

Project Name	Improvements and Development of Park at Vinivink Shastry Layout in Ward No-01 of Yelahanka Sub Division
Client	The Executive Engineer, Yelahanka Division, BBMP
Mix Type	Concrete(M20)
Contractor	Sri. N. Thirunagendra
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Material	Concrete for Plinth Beam
Size of cubes	150x150x150mm
Cross Sectional Area	22500mm2
Sample No	1
Sample Collected Date	9-Jun-2020
Test Date	16-Jun-2020

AE1

Compressive strength of Concrete

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Density (kg/m^3)	Max. Load (KN)	Area (mm^2)	Compressive Strength (N/mm^2)	Avg. Strength
1	20	7	5.00	1481.48	328	22500.00	14.58	14.23
2	20	7	5.00	1481.48	315	22500.00	14.00	
3	20	7	5.00	1481.48	326	22500.00	14.49	
4	20	7	5.00	1481.48	320	22500.00	14.22	
5	20	7	5.00	1481.48	314	22500.00	13.96	
6	20	7	5.00	1481.48	318	22500.00	14.13	

Results: 7-days Compressive strength of cement is **14.23** N/mm2

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QUALIEX CIVIL DESIGN & CONSULTANCY

Project Management Services

Job No: QECD/BBMP/YNK/QC-03/W-1/2020-21

Test Report

Project Name	Improvements and Development of Park at Vinivink Shastry Layout in Ward No-01 of Yelahanka Sub Division
Client	The Executive Engineer, Yelahanka Division, BBMP
Mix Type	Concrete(M20)
Contractor	Sri. N. Thirunagendra
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Material	Concrete for Plinth Beam
Size of cubes	150x150x150mm
Cross Sectional Area	22500mm2
Sample No	2
Sample Collected Date	10-Jun-2020
Test Date	17-Jun-2020

Compressive strength of Concrete

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Density (kg/m^3)	Max. Load (KN)	Area (mm^2)	Compressive Strength (N/mm^2)	Avg. Strength
1	20	7	5.00	1481.48	319	22500.00	14.18	14.22
2	20	7	5.00	1481.48	324	22500.00	14.40	
3	20	7	5.00	1481.48	310	22500.00	13.78	
4	20	7	5.00	1481.48	326	22500.00	14.49	
5	20	7	5.00	1481.48	321	22500.00	14.27	
6	20	7	5.00	1481.48	320	22500.00	14.22	

Results: 7-days Compressive strength of cement is **14.22** N/mm2

Note:

i. The results indicated above are based on the tests carried out on the sample at site.
ii. The results relate only to the items tested.
iii. This test report should not be reproduced except in full, without written approval of this laboratory.
iv. Any query regarding the report must be reported immediately.

For Qualiex Civil Design & Consultancy

Authorised Signature

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QUALIEX CIVIL DESIGN & CONSULTANCY

Project Management Services

Job No: QECD/BBMP/YNK/QC-03/W-1/2020-21

Test Report

Project Name	Improvements and Development of Park at Vinivink Shastry Layout in Ward No-01 of Yelahanka Sub Division
Client	The Executive Engineer, Yelahanka Division, BBMP
Mix Type	Concrete(M20)
Contractor	Sri. N. Thirunagendra
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Material	Concrete for Plinth Beam
Size of cubes	150x150x150mm
Cross Sectional Area	22500mm2
Sample No	1
Sample Collected Date	9-Jun-2020
Test Date	7-Jul-2020

Compressive strength of Concrete

AE-1

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Density (kg/m^3)	Max. Load (KN)	Area (mm^2)	Compressive Strength (N/mm^2)	Avg. Strength
1	20	28	5.00	1481.48	528	22500.00	23.47	23.32
2	20	28	5.00	1481.48	532	22500.00	23.64	
3	20	28	5.00	1481.48	518	22500.00	23.02	
4	20	28	5.00	1481.48	524	22500.00	23.29	
5	20	28	5.00	1481.48	526	22500.00	23.38	
6	20	28	5.00	1481.48	520	22500.00	23.11	

Results: 28-days Compressive strength of cement is **23.32** N/mm2

Note:

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QUALIEX CIVIL DESIGN & CONSULTANCY
Project Management Services

Job No: QECD/BBMP/YNK/QC-03/W-1/2020-21

Test Report

Project Name	Improvements and Development of Park at Vinivink Shastry Layout in Ward No-01 of Yelahanka Sub Division
Client	The Executive Engineer, Yelahanka Division, BBMP
Mix Type	Concrete(M20)
Contractor	Sri. N. Thirunagendra
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Material	Concrete for Plinth Beam
Size of cubes	150x150x150mm
Cross Sectional Area	22500mm2
Sample No	1
Sample Collected Date	10-Jun-2020
Test Date	8-Jul-2020

Compressive strength of Concrete

AE-1

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Density (kg/m^3)	Max. Load (KN)	Area (mm^2)	Compressive Strength (N/mm^2)	Avg. Strength
1	20	28	5.00	1481.48	515	22500.00	22.89	23.07
2	20	28	5.00	1481.48	520	22500.00	23.11	
3	20	28	5.00	1481.48	532	22500.00	23.64	
4	20	28	5.00	1481.48	515	22500.00	22.89	
5	20	28	5.00	1481.48	501	22500.00	22.27	
6	20	28	5.00	1481.48	532	22500.00	23.64	

Results: 28-days Compressive strength of cement is **23.07** N/mm2

Note:

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